City of
FRESNO
Water Division • 209-498-1458
1910 East University • Fresno, California 93703-2988

Public Utilities

January 31, 1997

Mr. Carl Carlucci
Senior Sanitary Engineer
State of California
Department of Health Services
Office of Drinking Water
5545 E. Shields Avenue
Fresno, California 93727

Dear Mr. Carlucci:

SUBJECT: SUMMER 1996 LEAD AND COPPER SAMPLING RESULTS

Attached are results of the lead and copper monitoring performed by the City of Fresno during the summer 1996.

The City of Fresno's sample results did not exceed the action level for lead or copper with the 90th percentile samples.

The City of Fresno's water distribution system continues to be significantly below the EPA/DHS action level for both lead and copper. Accordingly, after four consecutive rounds of sampling significantly below the lead and copper action level it is interpreted that the next round of testing be performed in the summer of 1999. Please provide, at your convenience, written confirmation of your concurrence.

Sincerely,

DEPARTMENT OF PUBLIC UTILITIES

Martin R. McIntyre
Water Systems Manager

Enclosures

cc: Daniel L. Trafican, Acting Public Utilities Director

h:\prd\leadcopr\96dhsltr

CITY OF FRESNO WATER DIVISION LEAD AND COPPER RULE

COMPLIANCE MONITORING RESULTS OF SUMMER 1996 MONITORING

INTRODUCTION

The United States Environmental Protection Agency (USEPA) promulgated National Primary Drinking Water Regulations for lead and copper monitoring on June 7, 1991, (56 FR26460), commonly referred to as the Lead and Copper Rule. This Rule requires that the City of Fresno monitor the water distribution system from the source to the point of delivery at the consumer's tap. Three specific monitoring protocols are included in the Lead and Copper Rule regulations:

1) First draw tap water monitoring for lead and copper
2) distribution system monitoring for various water quality parameters, and
3) source water monitoring for lead, copper, and various water quality parameters.

For the purposes of the Lead and Copper Rule monitoring requirements, the City of Fresno is classified as a large public water supplier. This classification is based upon the City's 102,000 service connections which supply potable water to some 465,000 customers.

SAMPLE SITE SELECTION

The City of Fresno utilized the same Tier 1-C sample pool of residences which were selected for the initial year of testing. (Two rounds of sampling and analysis for lead and copper were required for 1993 whereas only one round was required for 1994 and again in 1996.) Eighteen of these residences were not sampled for 1994; two residents had installed water filtration/softening

devices, seven residents could not be contacted, and nine chose not to participate in this sampling. One resident had moved into another dwelling which met all the criteria for a sample site and was thus added to the sample pool. Samples were thus collected for 114 sites in the sample 1994 pool.

Per the direction of the State of California Department of Health Services, Office of Drinking Water (who presently govern the Lead and Copper Rule) the 1996 sampling was reduced to fifty (50) representative sites from within the original sample pool of residences. Sites were randomly selected from each tract in an attempt to maintain equal sample percentages in accordance with previous samplings. Unfortunately not all sites randomly selected for the 1996 sampling chose to participate. The final tract percentages are outlined below.

TRACT	ENTIRE SAMPLE POOL %	1996 SAMPLE POOL %
A	03%	08%
B	34%	30%
C	31%	30%
D	18%	18%
E	12%	14%
F	02%	00%
TOTAL	100%	100%

Exhibit 1 presents the completed Sample Site Justification/Collection Method Certification Form from the Lead and Copper Rule Guidance Manual. The residents performing the tap water sampling are listed in Table 1. Water quality sampling was performed at twenty source locations

and twenty-four distribution system locations. These water quality sample locations are in the same areas as the tap water sample sites and represent the sources and distribution system for all the tap water sample sites in the Tier 1-C sample pool. The locations of the water quality sample sites are listed in Table 2.

SAMPLE COLLECTION

The City of Fresno collected their 1996 samples in compliance with the Lead and Copper Rule during the period August 8 - September 8, 1996. Residents collecting tap water samples were given written instructions (Exhibit 2) along with their sample bottle.

TAP WATER SAMPLE RESULTS

Table 3 presents the results of the tap water analysis for lead and copper. The table lists the lead and copper concentrations in descending order. This was done in order to determine the 90th percentile levels as required by the Lead and Copper Rule.

Lead Results

The 90th percentile lead level was determined by multiplying the number of samples taken by 0.9 (50 x 0.9 = 45). The 90th percentile lead level for the City of Fresno samples is 0.0025 mg/L which is below the EPA action level of 0.015 mg/L. The laboratory analysis detection limit for lead is the following: values less than 0.001 mg/L are reported as 0 (zero); values between 0.0010 and 0.0049 are reported as 0.0025 mg/L; values greater than 0.005 mg/L are reported directly.

Copper Results

The 90th percentile copper level was determined in the same way as for lead. The 90th percentile copper level for the City of Fresno is 0.45 mg/L which is below the EPA action level of 1.3 mg/L. The laboratory analysis detection limit for copper is the following: values less than 0.01 mg/L are reported as 0 (zero); values between 0.010 and 0.049 mg/L are reported as 0.025 mg/L; values greater than 0.05 mg/L are reported directly.

DISTRIBUTION SYSTEM AND SOURCE SAMPLE RESULTS

Water quality analysis was performed on twenty-four distribution system locations and twenty points of entry to the distribution system. These results are summarized in Tables 4 and 5. Both the lead and copper concentrations of the source water at all twenty of the sample locations were 0 (zero) mg/L. The laboratory analysis detection limit for both lead and copper have both been previously explained.

FUTURE LEAD AND COPPER MONITORING

Upon completion of this third year of sampling for the Lead and Copper Rule, the City of Fresno's water distribution system continues to be significantly below the EPA/DHS action level. Accordingly, it is interpreted that the next round of testing be resumed in the summer of 1999, to monitor lead and copper for the EPA/DHS.

SAMPLE SITE JUSTIFICATION/COLLECTION METHOD CERTIFICATION

System's Name: City of Fresno Water Division

Type: ☒ CWS ☐ NTNCWS

Address: 1910 E. University Ave.
Fresno, CA 93703-2988

Size: ☒ >100,000
☐ 10,001 to 100,000
☐ 3,301 to 10,000
☐ 501 to 3,300
☐ 101 to 500
☐ ≤100

Telephone number: (209) 498-1458

System ID #: 10-007

Contact Person: Martin McIntyre

THE RESULTS OF LEAD AND COPPER TAP WATER SAMPLES MUST BE ATTACHED TO THIS DOCUMENT

# of samples required 50 # of samples submitted 50

TARGETING CRITERIA

# of single-family structures with copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines (Tier 1)	50
# of multi-family structures with copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines (Tier 1)	0
# of buildings containing copper pipes with lead solder installed after 1982 or lead pipes and/or lead service lines (Tier 2)	0
# of sites that contain copper pipes with lead solder installed before 1983 (to be used only if first condition has been exhausted) (Tier 3)	0
TOTAL	50

Explanation of Tier 2 and Tier 3 sites (attach additional pages if necessary)

LEAD SERVICE LINE SITES

# of samples required to be drawn from lead service line sites	0
# of samples actually drawn from lead service line sites	0
Difference (explain differences other than zero)	0

Method used to identify lead service line sites (attach additional pages if necessary):
Utility Records, Permit Files, Senior Personnel and Retirees, Community Survey

THE RESULTS OF WATER QUALITY PARAMETER (WQP) SAMPLES MUST BE ATTACHED TO THIS DOCUMENT

# of samples required to be collected	20	# of WQP tap samples actually collected and submitted	20
# of WQP entry point samples required to be collected	24	# of WQP entry point samples actually collected and submitted	24

SAMPLE SITE JUSTIFICATION/COLLECTION METHOD CERTIFICATION

CERTIFICATION OF COLLECTION METHODS

I certify that:

Each first draw tap sample for lead and copper is one liter in volume and has stood motionless in the plumbing system of each sampling site for at least six hours.

Each first draw sample collected from a single-family residence has been collected from the cold water kitchen tap or bathroom sink tap.

Each first draw sample collected from a non-residential building has been collected at an interior tap from which water is typically drawn for consumption.

Each first-draw sample collected during an annual or triennial monitoring period has been collected in the months of June, July, August or September.

Each resident who volunteered to collect tap water samples from his or her home has been properly instructed by [insert water system's name] City of Fresno Water Division in the proper methods for collecting lead and copper samples. I do not challenge the accuracy of those sampling results. Enclosed is a copy of the material distributed to residents explaining the proper collection methods, and a list of the residents who performed sampling.

CHANGE OF SAMPLING SITE

Original site address: (b) (6) [redacted]

New site address: (b) (6) [redacted]

Distance between sites (approximately): Less than one-fourth (1/4) mile on relocation

Targeting Criteria: NEW: Population OLD: Population

Reason for change (attach additional pages if necessary):

Population growth, request by resident

SIGNATURE Martin R. McIntyre

Martin R. McIntyre	Water Systems Manager	1-31-97
NAME	TITLE	DATE

TABLE 2 - Water Quality Parameter Sample Locations

Type of Location	System Identification Number	Location
Source	W-79	(b) (9) [redacted]
Source	W-83	
Source	W-86	
Source	W-91	
Source	W-94	
Source	W-97	
Source	W-104	
Source	W-117	
Source	W-119	
Source	W-120	
Source	W-121	
Source	W-133	
Source	W-136	
Source	W-138	
Source	W-140	
Source	W-148	
Source	W-150	
Source	W-154	
Source	W-169	
Source	W-302	
		(b) (6) [redacted]
Distribution	D-31	
Distribution	D-34	
Distribution	D-36	
Distribution	D-66	
Distribution	D-68	
Distribution	D-69	
Distribution	D-70	
Distribution	D-76	
Distribution	D-79	
Distribution	D-81	
Distribution	D-82	
Distribution	D-116	
Distribution	D-117	
Distribution	D-126	
Distribution	D-128	
Distribution	D-129	
Distribution	D-130	
Distribution	D-133	
Distribution	D-134	
Distribution	D-155	
Distribution	D-156	
Distribution	D-159	
Distribution	D-181	
Distribution	D-202	

Exhibit 2

DIRECTIONS--RESIDENT TAP SAMPLE COLLECTION PROCEDURES

These samples are being collected to determine the contribution of household fixtures and pipes and/or solder to the lead and copper levels in tap water. This sampling effort is required by the State of California, Department of Health Services, and is being accomplished through the cooperation of homeowners and residents. The collection procedure is described in detail below:

1. **On the day prior to collecting the sample thoroughly clean and remove all debris which may have accumulated inside the aerator of your kitchen tap water faucet. Run the tap for 1-2 minutes after cleaning so that no loose debris will impact sampling process.**

2. **Do not use any water for 6-8 hours on your premises prior to sampling.** The Water Division recommends that either early mornings (after awakening) or early evenings (after returning from work) are the best sampling times to ensure that the proper water conditions exist.

3. **The primary kitchen cold water faucet is to be used for sampling. The sample must be 100% from the cold water side of the tap; it can not be a mixture of water "dialed" from both hot and cold service lines.** Place the open sample bottle below the faucet and **gently** open the cold water tap. **Slowly fill the sample bottle** to the base of the neck and turn off the water. **It should take 45-60 seconds to fill the sample bottle.**

4. Tightly cap the sample bottle and place in the plastic bag provided. Complete the information requested below and place in the plastic bag with the sample bottle.

5. Place the sample outside your home for pick-up by 8:00 AM, Monday August 12th.

6. Results from this monitoring effort will be provided to participating customers when reports are generated for the State of California, Department of Health Services.

Please call Bill Dunn at 498-4136 if you have any questions regarding these instructions.

TO BE COMPLETED BY RESIDENT AND RETURNED WITH SAMPLE:

Water was last used: TIME_____ DATE_____

Sample was collected: TIME_____ DATE_____

I have read the above directions and have taken a tap sample in accordance with these directions.

PRINTED NAME_____ SIGNATURE_____
ADDRESS_____ PHONE_____

TO BE COMPLETED BY WATER DIVISION EMPLOYEE:
Sample picked up by_____ Time_____ Date_____
h:\prd\sproj\wq\lead\96sample.wp

Table 3 - TAP WATER SAMPLE ANALYSIS - SUMMER 1996

Sample No.		Lead Ranking	Lead mg/L
10		50	0.009
131		49	0.007
1		48	0.0025
2		47	0.0025
3		46	0.0025
26		45	0.0025
36		44	0.0025
39		43	0.0025
40		42	0.0025
43		41	0.0025
50		40	0.0025
55		39	0.0025
57		38	0.0025
58		37	0.0025
61		36	0.0025
67		35	0.0025
71		34	0.0025
86		33	0.0025
88		32	0.0025
95		31	0.0025
107		30	0.0025
111		29	0.0025
124		28	0.0025
125		27	0.0025
126		26	0.0025
129		25	0.0025
130		24	0.0025
134		23	0.0025
136		22	0.0025
142		21	0.0025
143		20	0.0025
147		19	0.0025
156		18	0.0025
157		17	0.0025
159		16	0.0025
164		15	0.0025
165		14	0.0025
170		13	0.0025
42		12	0
52		11	0
64		10	0
76		9	0
83		8	0
84		7	0
98		6	0
105		5	0
115		4	0
150		3	0

Table 3 - TAP WATER SAMPLE ANALYSIS - SUMMER 1996

168		2	0
174		1	0

TABLE 3 - TAP WATER SAMPLE ANALYSIS - SUMMER 1996

Sample No.		Copper Ranking	Copper mg/L
174		50	0.68
168		49	0.58
159		48	0.52
143		47	0.47
147		46	0.46
156		45	0.45
2		44	0.43
130		43	0.39
115		42	0.38
142		41	0.35
26		40	0.32
136		39	0.32
39		38	0.28
64		37	0.27
107		36	0.27
170		35	0.27
43		34	0.26
50		33	0.26
83		32	0.26
88		31	0.25
129		30	0.25
67		29	0.24
164		28	0.24
3		27	0.21
42		26	0.21
131		25	0.21
134		24	0.21
125		23	0.2
55		22	0.19
71		21	0.17
86		20	0.17
124		19	0.17
52		18	0.16
95		17	0.15
98		16	0.15
1		15	0.14
61		14	0.14
76		13	0.14
105		12	0.14
58		11	0.13
10		10	0.12
36		9	0.11
84		8	0.11
126		7	0.11
150		6	0.11
165		5	0.11
40		4	0.067
57		3	0.056

TABLE 3 - TAP WATER SAMPLE ANALYSIS - SUMMER 1996

111		2	0.025
157		1	0.025

TABLE 4 - DISTRIBUTION SYSTEM WATER QUALITY ANALYSIS
Samples Taken 08/12/96 - 08/13/96

Sample No.	Lead (mg/L)	Copper (mg/L)	Turbitity (NTU)	ph	Temp. (deg C)	Cond (mS/cm)
D-31	0	0	0	7.5	28.3	0.28
D-34	0	0	0	7.8	29.4	0.31
D-36	0	0	0	7.7	26.3	0.27
D-66	0	0	0	7.7	28	0.29
D-68	0.0025	0	0	7.6	25.9	0.37
D-69	0.0025	0	0	7.4	27.5	0.38
D-70	0.0025	0	0	7.5	28.3	0.32
D-76	0.0025	0	0	7.6	25.7	0.28
D-79	0	0	0	7.6	23.7	0.28
D-81	0.0025	0	0.1	7.5	26.6	0.33
D-82	0	0	0.1	7.5	26	0.33
D-116	0.0025	0	0	7.4	27.5	0.37
D-117	0.0025	0	0.2	7.7	28.9	0.2
D-126	0.0025	0	0	7.7	27.2	0.3
D-128	0.0025	0	0	7.5	26.2	0.38
D-129	0	0	0.1	7.4	24.6	0.38
D-130	0	0	0.1	7.4	23.8	0.33
D-133	0	0	0	7.8	26.9	0.25
D-134	0	0	0	7.8	27.1	0.3
D-155	0.0025	0	0	7.7	25.9	0.2
D-156	0.0025	0	0	7.4	25.6	0.37
D-159	0	0	0	7.5	25.4	0.37
D-181	0	0	0	7.4	25.4	0.4
D-202	0	0	0	7.5	26	0.4
Average	0.0012	0	0.04	7.6	26.5	0.32
Minimum	0	0	0	7.4	23.7	0.2
Maximum	0.0025	0	0.2	7.8	29.4	0.4

TABLE 5. SOURCE WATER QUALITY ANALYSIS Samples Taken 08/08/96 - 08/09/96							
Sample No.	Lead (mg/L)	Copper (mg/l)	Alkalinity (mg/L CaCO3)	Calcium (mg/L)	pH	Temp. (deg C)	Cond. (mS/cm)
W-79	0	0	130	29	7.5	24	0.32
W-83	0	0	140	28	7.5	23.6	0.34
W-86	0	0	150	30	7.4	22.9	0.33
W-91	0	0	100	25	7.5	24.2	0.28
W-94	0	0	79	17	7.2	22.1	0.23
W-97	0	0	140	30	7.5	25	0.36
W-104	0	0	69	13	7.6	26.6	0.18
W-117	0	0	100	22	7.4	22	0.27
W-119	0	0	53	11	7.5	25.5	0.13
W-120	0	0	89	19	7.5	21.6	0.25
W-121	0	0	93	20	7.6	23.4	0.27
W-133	0	0	120	30	7.4	26	0.36
W-136	0	0	120	29	7.4	22.7	0.35
W-138	0	0	99	18	7.6	22.8	0.26
W-140	0	0	130	45	7.4	26.3	0.49
W-148	0	0	93	20	7.5	25.2	0.22
W-150	0	0	110	25	7.5	24.6	0.26
W-154	0	0	120	26	7.6	22.6	0.31
W-169	0	0	99	19	7.7	26	0.24
W-302	0	0	110	25	7.5	25	0.27
Average	0	0	107.2	24.05	7.49	24.11	0.286
Minimum	0	0	53	11	7.2	21.6	0.13
Maximum	0	0	150	45	7.7	26.6	0.49

APPENDIX A

INSTRUCTIONS AND RESIDENT CHAIN OF CUSTODY

DIRECTIONS--RESIDENT TAP SAMPLE COLLECTION PROCEDURES

These samples are being collected to determine the contribution of household fixtures and pipes and/or solder to the lead and copper levels in tap water. This sampling effort is required by the State of California, Department of Health Services, and is being accomplished through the cooperation of homeowners and residents. The collection procedure is described in detail below:

1. **On the day prior to collecting the sample thoroughly clean and remove all debris which may have accumulated inside the aerator of your kitchen tap water faucet. Run the tap for 1-2 minutes after cleaning so that no loose debris will impact sampling process.**

2. **Do not use any water for 6-8 hours on your premises prior to sampling.** The Water Division recommends that either early mornings (after awakening) or early evenings (after returning from work) are the best sampling times to ensure that the proper water conditions exist.

3. **The primary kitchen cold water faucet is to be used for sampling. The sample must be 100% from the cold water side of the tap; it can not be a mixture of water "dialed" from both hot and cold service lines.** Place the open sample bottle below the faucet and **gently** open the cold water tap. **Slowly fill the sample bottle** to the base of the neck and turn off the water. **It should take 45-60 seconds to fill the sample bottle.**

SAMPLE TO BE TAKEN FROM BATHROOM FAUCET

4. Tightly cap the sample bottle and place in the plastic bag provided. Complete the information requested below and place in the plastic bag with the sample bottle.

5. Place the sample outside your home for pick-up by 8:00 AM, Monday August 12th.

6. Results from this monitoring effort will be provided to participating customers when reports are generated for the State of California, Department of Health Services.

Please call Bill Dunn at 498-4136 if you have any questions regarding these instructions.

TO BE COMPLETED BY RESIDENT AND RETURNED WITH SAMPLE:

bathtub faucet used

Water was last used: TIME 9:30 pm - kitchen sink 10:30 pm - toilet flushed DATE 8-9-96

Sample was collected: TIME 6:30 am DATE 8-10-96

I have read the above directions and have taken a tap sample in accordance with these directions.

PRINTED NAME (b) (6) [redacted]
ADDRESS [redacted]

TO BE COMPLETED BY WATER DIVISION EMPLOYEE:
Sample picked up by_____ Time_____ Date_____
h:\prd\sproj\wq\lead\96sample.wp

8430 N. 3rd St.

 # 10

APPENDIX A

INSTRUCTIONS AND RESIDENT CHAIN OF CUSTODY

APPENDIX B

DISTRIBUTION SYSTEM RESULTS

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9) [redacted]

LOCATION: D #31 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 1:15

pH = 7.5

Temp. = 28.3 deg C

Conductivity = 0.28 mS/cm

(b) (9) [redacted]

LOCATION: D #202 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 1:55

pH = _____

Temp. = _____ deg C

Conductivity = _____ mS/cm

LOCATION: _____ (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = _____

Date = _____ Time = _____

pH = _____

Temp. = _____ deg C

Conductivity = _____ mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9) [redacted]

LOCATION: D #126 (W-## = WELL SITE)
(D)## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 11:35 Am

pH = 7.7

Temp. = 27.2 deg C

Conductivity = 0.30 mS/cm

(b) (9) [redacted]

LOCATION: D #76 (W-## = WELL SITE)
(D)## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 11:55

pH = 7.6

Temp. = 25.7 deg C

Conductivity = 0.28 mS/cm

(b) (9) [redacted]

LOCATION: D #66 (W-## = WELL SITE)
(D)## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 12:45

pH = 7.7

Temp. = 28.0 deg C

Conductivity = 0.29 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: D-#116 (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

(b) (9) [redacted]

Samplers Initials = EC

Date = 8-12-96 Time = 10:40 AM

pH = 7.4

Temp. = 27.5 deg C

Conductivity = 0.37 mS/cm

(b) (9) [redacted]

LOCATION: D-69 (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 11:00 AM

pH = 7.4

Temp. = 27.5 deg C

Conductivity = 0.38 mS/cm

(b) (9) [redacted]

LOCATION: D#128 (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 11:15 AM

pH = 7.5

Temp. = 26.2 deg C

Conductivity = 0.38 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: D-155 # (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

(b) (9) [redacted]

Samplers Initials = EC

Date = 8-12-96 Time = 9:45 AM

pH = 7.7

Temp. = 25.9 deg C

Conductivity = 0.20 mS/cm

LOCATION: D-#117 (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

(b) (9) [redacted]

Samplers Initials = EC

Date = 8-12-96 Time = 10:00 AM

pH = 7.7

Temp. = 28.9 deg C

Conductivity = 0.20 mS/cm

LOCATION: D-#70 (W-## = WELL SITE)
(D-##) = DISTRIBUTION SYSTEM SITE)

(b) (9) [redacted]

Samplers Initials = EC

Date = 8-12-96 Time = 10:20 AM

pH = 7.5

Temp. = 28.3 deg C

Conductivity = 0.32 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9) [redacted]

LOCATION: D-#156 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = E.C

Date = 8-12-96 Time = 8:50 Am

pH = 7.4

Temp. = 25.6 deg C

Conductivity = 0.37 mS/cm

(b) (9) [redacted]

LOCATION: D-#159 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 9:15 Am

pH = 7.5

Temp. = 25.4 deg C

Conductivity = 0.37 mS/cm

(b) (9) [redacted]

LOCATION: D-#68 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-12-96 Time = 9:25 Am

pH = 7.6

Temp. = 25.9 deg C

Conductivity = 0.37 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9) [redacted]

LOCATION: D #202 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 8:30 AM

pH = 7.5

Temp. = 26.0 deg C

Conductivity = 0.40 mS/cm

(b) (9) [redacted]

LOCATION: DF 129 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 8:50 AM

pH = 7.4

Temp. = 24.6 deg C

Conductivity = 0.38 mS/cm

(b) (9) [redacted]

LOCATION: DH 181 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 9:30 AM

pH = 7.4

Temp. = 25.4 deg C

Conductivity = 0.40 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9)

LOCATION: D# 130 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 9:45 Am

pH = 7.4

Temp. = 23.8 deg C

Conductivity = 0.33 mS/cm

(b) (9)

LOCATION: D# 79 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 10:05 Am

pH = 7.6

Temp. = 23.7 deg C

Conductivity = 0.28 mS/cm

(b) (9)

LOCATION: D# 81 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 10:25

pH = 7.5

Temp. = 26.6 deg C

Conductivity = 0.33 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9)

LOCATION: D# 82 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 10:45

pH = 7.5

Temp. = 26.0 deg C

Conductivity = 0.33 mS/cm

(b) (9)

LOCATION: D# 34 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 11:05

pH = 7.8

Temp. = 29.4 deg C

Conductivity = 0.31 mS/cm

(b) (9)

LOCATION: D# 134 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 11:25 AM

pH = 7.8

Temp. = 27.1 deg C

Conductivity = 0.30 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

(b) (9) [redacted]

LOCATION: D# 133 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 11:50

pH = [redacted] 7.8

Temp. = 26.9 deg C

Conductivity = 0.25 mS/cm

(b) (9) [redacted]

LOCATION: D#36 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-13-96 Time = 12:45

pH = 7.7

Temp. = 26.3 deg C

Conductivity = 0.27 mS/cm

LOCATION: _____ (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = _____

Date = _____ Time = _____

pH = _____

Temp. = _____ deg C

Conductivity = _____ mS/cm

APPENDIX C

SOURCE WATER RESULTS

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1779
Project Number :
Sample Description : Well Sample STA #94

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	79	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	97	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	17	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	210	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.20	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1780
Project Number :
Sample Description : Well Sample STA #117

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	100	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	130	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	22	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	260	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.40	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1781
Project Number :
Sample Description : Well Sample STA #136

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	120	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	150	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	29	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	360	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.40	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1782
Project Number :
Sample Description : Well Sample STA #97

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	140	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	170	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	30	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	370	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1783
Project Number :
Sample Description : Well Sample STA #154

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	120	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	150	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	26	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	310	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.60	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	0.10	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1784
Project Number :
Sample Description : Well Sample STA #169

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	99	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	120	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	19	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	240	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.70	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1785
Project Number :
Sample Description : Well Sample STA #133

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	120	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	150	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	30	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	370	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.40	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

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1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1786
Project Number :
Sample Description : Well Sample STA #140

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	130	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	160	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	45	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	530	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.40	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	0.10	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1787
Project Number :
Sample Description : Well Sample STA #83

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	140	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	170	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	28	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	330	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1788
Project Number :
Sample Description : Well Sample STA #86

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	150	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	180	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	30	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	330	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.40	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1789
Project Number :
Sample Description : Well Sample STA #150

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	110	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	130	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	25	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	250	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	0.10	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000117
Lab Number : 1790
Project Number :
Sample Description : Well Sample STA #148

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	N/A	N/A	93	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	N/A	N/A	110	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/21/96	08/21/96	20	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	N/A	N/A	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	N/A	N/A	220	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/26/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	N/A	N/A	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/26/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	N/A	N/A	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

Bill Dunn
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/08/96
Submission Time : 15:29

Submission Number : 9608000117
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1779	Well Sample STA #94	DW	08/08/96	08:20
1780	Well Sample STA #117	DW	08/08/96	08:55
1781	Well Sample STA #136	DW	08/08/96	09:10
1782	Well Sample STA #97	DW	08/08/96	09:25
1783	Well Sample STA #154	DW	08/08/96	09:35
1784	Well Sample STA #169	DW	08/08/96	10:10
1785	Well Sample STA #133	DW	08/08/96	10:40
1786	Well Sample STA #140	DW	08/08/96	11:00
1787	Well Sample STA #83	DW	08/08/96	11:20
1788	Well Sample STA #86	DW	08/08/96	11:40
1789	Well Sample STA #150	DW	08/08/96	13:30
1790	Well Sample STA #148	DW	08/08/96	14:00

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1865
Project Number :
Sample Description : WELL SAMPLE STA.#138

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	99	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	120	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	18	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	210	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.60	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1866
Project Number :
Sample Description : Well Sample Sta.#120

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	89	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	110	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	19	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	240	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1867
Project Number :
Sample Description : Well Sample Sta.#121

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	93	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	110	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	20	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	250	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.60	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1868
Project Number :
Sample Description : Well Sample Sta.#79

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	130	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	150	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	29	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	340	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1869
Project Number :
Sample Description : Well Sample Sta.#91

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	100	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	130	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	25	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	270	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1870
Project Number :
Sample Description : Well Sample Sta.#302

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	110	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	140	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	25	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	280	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Sample Type : LIQUID

Submission Number : 9608000129
Lab Number : 1871
Project Number :
Sample Description : Well Sample Sta.#104

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	69	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	85	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	13	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	180	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.60	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	0.10	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Report Issue Date : 08/29/96

Submission Number : 9608000129
Lab Number : 1872
Project Number :
Sample Description : Well Sample Sta.#119

Sample Type : LIQUID

Method	Analyte	Date Prep.	Date Anal.	Result	Units	DLR	Dil
SM 2320-B	Alkalinity (as CaCO3)	08/21/96	08/22/96	53	mg/L	1	1
SM 2320-B	Bicarbonate (as HCO3)	08/21/96	08/22/96	65	mg/L	1	1
EPA 200.7	Calcium (Ca)	08/23/96	08/23/96	11	mg/L	0.1	1
SM 2320-B	Carbonate (as CO3)	08/21/96	08/22/96	ND	mg/L	1	1
SM 2510-B	Conductivity, Specific (EC)	08/21/96	08/22/96	140	µmho/c	1	1
EPA 200.8	Copper (Cu)	08/25/96	08/26/96	ND	mg/L	0.010	1
SM 2320-B	Hydroxide (as OH)	08/21/96	08/22/96	ND	mg/L	1	1
EPA 200.8	Lead (Pb)	08/25/96	08/26/96	ND	mg/L	0.001	1
SM 4500-H-	pH	08/21/96	08/22/96	7.50	STD	-	1
SM 2130-B	Turbidity (NTU)	N/A	08/13/96	ND	NTU	0.1	1

ND : None Detected
mg/L : Milligrams/Liter
µg/L : Micrograms/Liter
mg/kg : Milligrams/Kilogram
µg/kg : Micrograms/Kilogram

DLR : Detection Limit for the Purposes of Reporting
Exceptional sample matrices or interferences may result in higher detection limits

DLR = DLR x Dilution Factor

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BSK ANALYTICAL LABORATORIES

SAMPLE SUBMISSION SUMMARY

BILL DUNN
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

Submission Date : 08/09/96
Submission Time : 14:59

Submission Number : 9608000129
Client Project ID :
Purchase Order No. :

Lab Number	Client Sample Desc.	Matrix	Date Sampled	Time Sampled
1865	WELL SAMPLE STA.#138	DW	08/09/96	08:25
1866	Well Sample Sta.#120	DW	08/09/96	09:15
1867	Well Sample Sta.#121	DW	08/09/96	09:25
1868	Well Sample Sta.#79	DW	08/09/96	10:05
1869	Well Sample Sta.#91	DW	08/09/96	10:25
1870	Well Sample Sta.#302	DW	08/09/96	10:45
1871	Well Sample Sta.#104	DW	08/09/96	11:05
1872	Well Sample Sta.#119	DW	08/09/96	11:50

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: #86 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 11:40 am

pH = 8.3*

Temp. = 22.9 deg C

Conductivity = 0.33 mS/cm

LOCATION: #150 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 1:30 pm

pH = 8.6*

Temp. = 24.6 deg C

Conductivity = 0.26 mS/cm

LOCATION: #148 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 2:00

pH = 8.4*

Temp. = 25.2 deg C

Conductivity = 0.22 mS/cm

* METER DEFECTIVE ≈ 1.0 - 1.2 8-9-96

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: #133 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 10:40 Am

pH = 8.3*

Temp. = 26 deg C

Conductivity = 0.36 mS/cm

LOCATION: #140 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 11:00 Am

pH = 8.2*

Temp. = 26.3 deg C

Conductivity = 0.49 mS/cm

LOCATION: #83 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 11:20 Am

pH = 8.4*

Temp. = 23.6 deg C

Conductivity = 0.34 mS/cm

*Meter Defective ≈1.0-1.2 8-9-96

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: STA #97 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 9:25 AM

pH = 8.5*

Temp. = 25 deg C

Conductivity = 0.36 mS/cm

LOCATION: STA #154 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC.

Date = 8-8-96 Time = 9:35 AM

pH = 8.5*

Temp. = 22.6 deg C

Conductivity = 0.31 mS/cm

LOCATION: 169 # (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 10:10 AM

pH = 8.7*

Temp. = 26 deg C

Conductivity = 0.24 mS/cm

*METER DEFECTIVE ≈ 1.0-1.2 8-9-96

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: STA# 94 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 8:20 AM

pH = 8.5*

Temp. = 22.1 deg C

Conductivity = 0.23 mS/cm

LOCATION: STA# 117 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 8:55 AM

pH = 8.5*

Temp. = 22 deg C

Conductivity = 0.27 mS/cm

LOCATION: STA # 136 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-8-96 Time = 9:10 AM

pH = 8.4*

Temp. = 22.7 deg C

Conductivity = 0.35 mS/cm

* METER DEFECTIVE ≈ 1.0-1.2 8-9-96

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: # 79 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 10:05 Am

pH = 7.2

Temp. = 24 deg C

Conductivity = 0.32 mS/cm

LOCATION: #91 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 10:25

pH = 7.3

Temp. = 24.2 deg C

Conductivity = 0.28 mS/cm

LOCATION: #302 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 10:45 Am

pH = 7.3

Temp. = 25 deg C

Conductivity = 0.27 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: #138 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 8:25 AM

pH = 8.0

Temp. = 22.8 deg C

Conductivity = 0.26 mS/cm

LOCATION: #120 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 9:15 AM

pH = 7.6

Temp. = 21.6 deg C

Conductivity = 0.25 mS/cm

LOCATION: #121 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 9:25 AM

pH = 7.5

Temp. = 23.4 deg C

Conductivity = 0.27 mS/cm

FRESNO LEAD & COPPER RULE

DISTRIBUTION & WELL SAMPLE FIELD LOG

LOCATION: #104 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 11:05 AM

pH = 7.4

Temp. = 26.6 deg C

Conductivity = 0.18 mS/cm

LOCATION: #119 (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = EC

Date = 8-9-96 Time = 11:50

pH = 7.1

Temp. = 25.5 deg C

Conductivity = 0.13 mS/cm

LOCATION: _____ (W-## = WELL SITE)
(D-## = DISTRIBUTION SYSTEM SITE)

Samplers Initials = _____

Date = _____ Time = _____

pH = _____

Temp. = _____ deg C

Conductivity = _____ mS/cm

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street Fresno, CA 93706
(209) 497-2888 FAX 485-6935 800 877-8310

Analyses Request / Chain of Custody

BSK Log Number:

Shaded areas for LAB use only

Client Name	FCWD	Report Attention:	Bill Dunn	Phone #	
Address		Project , Quote or PO #		FAX #	
City, State, Zip		Copy to:		System #	

Sampled by: ED CORRALES

LAB use only Sample #	Type	# Cont.	Date Sampled	Time Sampled	Sample Description/Location	~~Comment or Station Code~~ Temp	Requested Analyses: pH	Ca	Alkalinity	EC	Lead/Copper Rule
			8-8-96	8:20 AM	WELL BAMPLE STA #94		X	X	X	X	X
			8-8-96	8:55 AM	WELL SAMPLE STA # 117		X	X	X	X	X
			8-8-96	9:10 AM	WELL SAMPLE STA # 136		X	X	X	X	X
			8-8-96	9:25 AM	WELL SAMPLE STA # 97		X	X	X	X	X
			8-8-96	9:35 AM	WELL SAMPLE STA # 154		X	X	X	X	X
			8-8-96	10:10	WELL SAMPLE STA # 169		X	X	X	X	X
			8-8-96	10:40	WELL SAMPLE STA # 133		X	X	X	X	X
			8-8-96	11:00	WELL SAMPLE STA # 140		X	X	X	X	X
			8-8-96	11:20	WELL SAMPLE STA # 83		X	X	X	X	X
			8-8-96	11:40	WELL SAMPLE STA # 86		X	X	X	X	X
			8-8-96	1:30	WELL SAMPLE STA # 150		X	X	X	X	X
			8-8-96	2:00	WELL SAMPLE STA # 148		X	X	X	X	X

Matrix Type: L - Liquid S - Solid G - Gas
Type of Hazards Associated with Samples:

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
[ ] - Formal Chain of Custody [ ] - QC Data package

Additional Services Authorized by:

(Signature)

Payment Received with Delivery
Date: _____ Amount: $_____
Check # _____ Initials _____
Reciept # _____

Signature	Print Name	Company	Date	Time
Requested / Relinquished by:	ED CORRALES	F.C.W.D	8-8-96	2:30
Received / Relinquished by:				
Received / Relinquished by:				
Received / Relinquished by:				
Received for Laboratory by:	S. Mills	BSK	8/8/96	14:30

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street Fresno, CA 93706
(209) 497-2888 FAX 485-6935 800 877-8310

Analyses Request / Chain of Custody

BSK Log Number:

Shaded areas for LAB use only

Client Name F.C.W.D	Report Attention: BILL DUNN	Phone #	
Address	Project, Quote or PO #	FAX #	
City, State, Zip	Copy to:	System #	

Requested Analyses

Sample # (LAB use only)	Type	# Cont.	Date Sampled	Time Sampled	Sample Description/Location (Sampled by:)	Comment or Station Code (TEMP)	pH	CA	ALKALINITY	EC	Lead/Copper Rule						
1	L	1	8-9-96	8:25	WELL Sample STA #138		X	X	X	X	X						
2	|	|	8-9-96	9:15	WELL Sample STA #120		X	X	X	X	X						
3	|	|	8-9-96	9:25	WELL Sample STA #121		X	X	X	X	X						
4	|	|	8-9-96	10:05	WELL Sample STA # 79		X	X	X	X	X						
5	|	|	8-9-96	10:25	WELL Sample STA # 91		X	X	X	X	X						
6	|	|	8-9-96	10:45	WELL Sample STA # 302		X	X	X	X	X						
7	|	|	8-9-96	11:05	WELL Sample STA # 104		X	X	X	X	X						
8	L	|	8-9-96	11:50	WELL Sample STA # 119		X	X	X	X	X						

Matrix Type: L - Liquid S - Solid G - Gas
Type of Hazards Associated with Samples:

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
[ ] - Formal Chain of Custody [ ] - QC Data package

Additional Services Authorized by:

(Signature)

Payment Received with Delivery
Date: ______ Amount: $ ______
Check # ______ Initials ______
Reciept # ______

Signature	Print Name	Company	Date	Time
Requested / Relinquished by:	ED CORRALES	F.C.W.D	8-9-96	2:35
Received / Relinquished by:				
Received / Relinquished by:				
Received / Relinquished by:				
Received for Laboratory by: [illegible signature]	Ron Y.	BSK	8/9/96	14:30

BSK ANALYTICAL LABORATORIES

1414 Stanislaus Street Fresno, CA 93706
(209) 497-2888 FAX 485-6935 800 877-8310

Analyses Request / Chain of Custody

BSK Log Number:

Shaded areas for LAB use only

Client Name	F.C.W.D	Report Attention:	BILL DUNN	Phone #	
Address		Project , Quote or PO #		FAX #	
City, State, Zip		Copy to:		System #	

Requested Analyses

LAB use only Sample #	Type	# Cont.	Date Sampled	Time Sampled	Sampled by: Sample Description/Location	Comment or Station Code	PH	CA	ALKALINITY	EC	LEAD/COPPER RULE							
1	L	1	8-9-96	8:25	WELL SAMPLE STA # 138	TEMP	X	X	X	X	X							
2	L	1	8-9-96	9:15	WELL SAMPLE STA # 120		X	X	X	X	X							
3	L	1	8-9-96	9:25	WELL SAMPLE STA # 121		X	X	X	X	X							
4	L	1	8-9-96	10:05	WELL SAMPLE STA # 79		X	X	X	X	X							
5	L	1	8-9-96	10:25	WELL SAMPLE STA # 91		X	X	X	X	X							
6	L	1	8-9-96	10:45	WELL SAMPLE STA # 302		X	X	X	X	X							
7	L	1	8-9-96	11:05	WELL SAMPLE STA # 104		X	X	X	X	X							
8	L	1	8-9-96	11:50	WELL SAMPLE STA # 119		X	X	X	X	X							

Matrix Type: L - Liquid S - Solid G - Gas
Type of Hazards Associated with Samples:

Additional Services:
Rush Priority: [ ] - 2 Day [ ] - 5 Day
[ ] - Formal Chain of Custody [ ] - QC Data package

Additional Services Authorized by:

(Signature)

Payment Received with Delivery
Date: _____ Amount: $ _____
Check # _____ Initials _____
Reciept # _____

Signature	Print Name	Company	Date	Time
Requested / Relinquished by:	ED CORRALES	F.C.W.D	8-9-96	2:35
Received / Relinquished by:				
Received / Relinquished by:				
Received / Relinquished by:				
Received for Laboratory by:	[signature]	BSK	8/9/96	14:35

APPENDIX D

RESIDENT SAMPLE SITE RESULTS

BSK ANALYTICAL LABORATORIES

CERTIFICATE OF ANALYSIS
Cover Letter

September 13, 1996

Doug Kirk
Fresno City Water Division
1910 E. University Ave.
Fresno, CA 93703-

BSK Submission Number : 9608000209
Date Received : 08/15/96

Dear Doug Kirk,

BSK adheres to a quality assurance plan that has been approved by the State of California, Department of Health Services. Our ELAP certificate number is 1180.

This Certificate of Analysis has been prepared in response to your request for analytical services. Information was taken from your Chain-of-Custody or related correspondence. All sample handling and analytical procedures were completed within BSK Laboratories' standard acceptability criteria with any exceptions noted below.

If additional clarification of information contained within this certificate is needed, please contact our Client Service Department at 1-800-877-8310 or 209-497-2888.

Sincerely,

Jeffrey Koelewyn
Laboratory Operations Supervisor

1414 Stanislaus Street • Fresno, CA 93706 • Phone 209-497-2888, In CA 800-877-8310 • Fax 209-485-6935

APPENDIX E

DISTRIBUTION SAMPLE LISTING FOR ENTIRE CITY